

## CLAIMS

Claim 12 is canceled. All claims are presented below.

1. (Original) A computer-implemented method for dynamically allocating a device to a bus, the method comprising:

monitoring activity on a plurality of buses to determine an imbalance;

responsive to a determined imbalance:

automatically selecting a device from a plurality of devices to move

from a first of the plurality of buses to a second of the plurality

of buses; and

configuring the device to communicate via the second bus.

2. (Original) The computer-implemented method of claim 1 wherein the determined imbalance includes greater activity on the first bus than on the second bus.

3. (Original) The computer-implemented method of claim 1 wherein the determined imbalance includes greater power consumption by the first bus than the second bus.

4. (Original) The method of claim 1 wherein automatically selecting the device to move from the first bus to the second bus further comprises:

determining which device of the plurality of devices is generating a least

amount of traffic on the bus; and

selecting the determined device.

5. (Original) The method of claim 1 wherein automatically selecting the device to move from the first bus to the second bus further comprises:

determining a ranking for each device according to an amount of traffic on the bus generated by the device; and  
selecting according to the rankings a device to move from the first bus to the second bus to reduce the imbalance.

6. (Original) A computer-implemented method for dynamically allocating a device to a bus, the method comprising:

receiving a threshold imbalance level;

monitoring activity on a plurality of buses to determine an imbalance;

responsive to the determined imbalance exceeding the threshold imbalance level:

automatically selecting a device to move from a first of the plurality

of buses to a second of the plurality of buses; and

configuring the device to communicate via the second bus.

7. (Original) The method of claim 6 wherein the threshold imbalance level is associated with a hardware profile.

8. (Original) The method of claim 7 wherein the hardware profile is a portable computer profile.

9. (Original) The method of claim 7 wherein the hardware profile is a desktop computer profile.

10. (Original) A computer-implemented method for dynamically allocating a device to a bus, the method comprising:

determining a performance preference;

responsive to the performance preference indicating a preference for decreased power usage:

- automatically selecting a device to move from a first of a plurality of buses to a second of the plurality of buses;
- configuring the device to communicate via the second bus;

responsive to the performance preference indicating a preference for increased efficiency:

- automatically selecting a device to move from the second of the plurality of buses to the first of the plurality of buses; and
- configuring the device to communicate via the first bus;

11. (Original) The computer-implemented method of claim 10 further comprising:

responsive to the performance preference indicating a preference for decreased power usage:

- configuring each device on the first bus to communicate via the second bus; and
- causing the first bus to become idle.

12. (Canceled).